# SUBJECT INDEX


Absorption
Ultrasonic velocity and absorption on methylmetha acrylic resins 429

Activity coefficient
Thermodynamics of electrolytic solutions: Activity and osmotic coefficients of aqueous NaCl in the $NaCl-MgCl_2-H_2O$ system at different temperatures by the EMF method 433

Adenosine-5'-triphosphate
Physicochemical studies on ternary complexes containing adenosine-5'-triphosphate, divalent metal ions and selected biomolecules 1

Adjacency matrix
A graph theoretical method for stepwise factorisation of symmetric graphs for simultaneous determination of eigenvectors and eigenvalues 143

Adjacency operator
A graph theoretical method for stepwise factorisation of symmetric graphs for simultaneous determination of eigenvectors and eigenvalues 143

Allophanate linkage
Studies on the effect of extraction of isophorone diisocyanate-based segmented polyurethanes 455

Alumina precursor
Basic aluminium succinate: An alumina precursor formed by precipitation from homogeneous solution 111

Amino acid
Kinetics and mechanism of anation of *cis*-diaquo-*bis*-oxalatochromate(III) ion by DL-alanine in ethanol–water mixtures of varying dielectric constant 187
Physicochemical studies on ternary complexes containing adenosine-5'-triphosphate, divalent metal ions and selected biomolecules 1

Amorilin
Synthesis of lespedezaflavanone-B and amorilin 383

Analysis of variance
Determination of low concentration by spectrophotometry: Uranium–thiocyanate system 227

Analytical selectivity
Functional properties and electroanalytical selectivity of some anion exchange membranes 133

Anation
Kinetics and mechanism of anation of *cis*-diaquo-*bis*-oxalatochromate(III) ion by DL-alanine in ethanol–water mixtures of varying dielectric constant 187

Aniline
Excited-state dipole moments from absorption and fluorescence solvatochromic shifts – a better approach 269

1-Anilinonaphthalene-8-sulphonate
Interaction of 1-anilinonaphthalene-8-sulphonate with cross-linked poly(N-vinyl-2-pyrrolidone) 259

Anti-tubercular metabolite
Structure of 3-ethyl-6-phenyl-4-carbomethoxy-1.H-2-pyridone, an anti-tubercular metabolite 19

Aqueous halide solutions
Photocorrosion studies on CdS, $CdS_{0.62}Se_{0.38}$ and $Pt/CdS_{0.62}Se_{0.38}$ in aqueous halide solutions 487

Associative mechanism
Kinetics and mechanism of anation of *cis*-diaquo-*bis*-oxalatochromate(III) ion by DL-alanine in ethanol–water mixtures of varying dielectric constant 187

Azo dye
Clathrate compound of a new host material, 3-hydroxy-6-(4'-nitro)phenylazopyridine 327

Basic aluminium succinate
Basic aluminium succinate: An alumina precursor formed by precipitation from homogeneous solution 111

9-BBN/$H_2O_2$–NaOH
New synthesis of (*E*)-3, 7-dimethyl-2, 7-octadienylpropionate and (*E*)-3, 7-dimethyl-2-octen-1, 8-diol, pheromone components of San Jose scale-insect *Quadraspidiotus pernicious* and african monarch butterfly *Danaus chrysippus* 307

Benzilmono(lepidyl)hydrazone
Complexation behaviour of benzilmono(lepidyl) hydrazone (BLH) toward bivalent metal ions: A potentiometric study 361

Benzoxazaphosphorine
Crystal and molecular structure of 6-*t*-butyl-3-cyclohexyl-3, 4-dihydro-2-(2-chlorophenoxy)-2H-1, 3, 2-benzoxazaphosphorine-2-oxide 519

Binary and ternary systems
Metal complexes of thymidine – a study of binary and ternary systems with bivalent and trivalent metal ions in solution 99

Binary mixtures
Excess volumes of isomeric butanol with di-*n*-*butyl ether* 443

Binding
Interaction of 1-anilinonaphthalene-8-sulphonate with cross-linked poly(N-vinyl-2-pyrrolidone) 259
Bisecting conformation
Conformation of α-chloroacetanilides: An IR spectroscopic study 75
Bivalent and trivalent metal ions
Metal complexes of thymidine – a study of binary and ternary systems with bivalent and trivalent metal ions in solution 99
Bivalent ions
Complexation behaviour of benzilmono(lepidyl) hydrazone (BLH) toward bivalent metal ions: A potentiometric study 361
Bivalent metal complexes
Synthesis, thermal, spectral and magnetic studies of complexes of Co(II), Ni(II), Cu(II), Ru(II), Pd(II) and Pt(II) with 2,3-disubstituted quinazolin-(3H)-4-ones 121
Blue-shifted iodine band
First experimental evidence for the existence of blue-shifted iodine band: The $^3\pi_1 - {}^1\Sigma^+$ transition. An anecdote 89
Bond multiplicity
Relationship between valency and a heat of atomisation of molecules 37
Bond valency
Relationship between valency and heat of atomisation of molecules 37
1-Bromobutane
Ultrasonic studies on binary mixtures of associated liquids (1-bromobutane + alcohol) at 303·15 K 439
Bronsted relationship
Structure–reactivity correlation in the reaction of ethyl bromoacetate with aliphatic carboxylate ions 171
Butanol–ether systems
Excess volumes of isomeric butanols with di-*n*-butyl ether 443
*t*-Butyl dimethyl silyl group
Chemical synthesis of oligonucleotides 3: Synthesis and characterization of N, O-protected ribophosphoesters for applications in RNA synthesis 401

Catalytic hydrogen wave
Polarographic analysis of the reduction waves of Pt(II)–SATSC complex 115
Chaotic oscillations
Chemical chaos in novel iodate-driven oscillator–thiophenol–iodate–$H_2SO_4$ system 177
Characteristic polynomials
Two new graph-theoretical methods for generation of eigenvectors of chemical graphs 499
Chemical chaos
Chemical chaos in novel iodate-driven oscillator–thiophenol–iodate–$H_2SO_4$ system 177
Chloramine-T
Kinetics and mechanism of oxidation of thiocarbohydrazide in the free state and in its metal complex and thiocarbohydrazone by chloramine-T and dichloramine-T 155
β-Chlorovinylaldehydes
Electrochemical investigations on β-chlorovinylaldehydes in aprotic media 473
Chloroacetanilides
Conformation of α-chloroacetanilides: An IR spectroscopic study 75
Clathrates
Clathrate compound of a new host material, 3-hydroxy-6-(4′-nitro) phenylazopyridine 327
Clusters
Homogeneous catalysis by ruthenium carbonyl clusters 195
Cofactor polynomials
Two new graph-theoretical methods for generation of eigenvectors of chemical graphs 499
Complete graphs
Two new graph-theoretical methods for generation of eigenvectors of chemical graphs 499
Complexed iodine visible band
First experimental evidence for the existence of blue-shifted iodine band: The $^3\pi_1 - {}^1\Sigma^+$ transition. An ancedote 89
Conformation
Crystal and molecular structure of 6-*t*-butyl-3-cyclohexyl-3, 4-dihydro-2-(2-chlorophenoxy)-2H-1, 3, 2-benzoxazaphosphorine-2-oxide 519
Conformational preference of *o*-substituted benzaldehydes
Dipole moments of some substituted benzaldehydes. Conformational preference of substituents ortho to the aldehyde group 311
Controlled-potential electrolysis
Electrochemical investigations on β-chlorovinylaldehydes in aprotic media 473
Coordination complexes
Synthesis and characterization of thorium and uranium cyanoacetates and their coordination compounds 211
Copper and chromium hydrazine carboxylates
Synthesis, characterisation and thermal analysis of copper(II) and chromium(II, III) hydrazine carboxylates 377
Cr(VI) oxidation of 4-methoxyphenylmethycarbinols
Kinetic evidence for steric enhancement of resonance: Oxidation of phenylmethylcarbinols with Cr(VI) and reduction of substituted acetophenones with sodium borohydride 33
Cr-S bond
Electron transfer to oxochromate(V) mediated through a sulphur bond 285
Cross-linked poly(N-vinyl-2-pyrrolidone)
Interaction of 1-anilinonaphthalene-8-sulphonate with cross-linked poly(N-vinyl-2-pyrrolidone) 259

Crosslink density
Topographical nature of the polymer matrix and reactivity of attached functional groups: Effect of crosslink density on the efficiency of solid-phase hypochlorite oxidations 335
Crystal field effect
IR and polarized Raman spectra of strontium tartrate trihydrate 243
Crystal growth
Morphological and solidification studies of the naphthalene–thymol eutectic 539
Crystal structure
Structure of 3-ethyl-6-phenyl-4-carbomethoxy-1.H-2-pyridone, an anti-tubercular metabolite 19
Crystallography
Clathrate compound of a new host material, 3-hydroxy-6-(4′-nitro)phenylazopyridine 327

Degradation
Studies on the effect of extraction of isophorone diisocyanate-based segmented polyurethanes 455
Degree of crystallinity
Spectroscopic method for the determination of crystallinity of hematite 529
Depolymerisation
Ultrasonic studies on binary mixtures of associated liquids (1-bromobutane + alcohol) at 303·15K 439
Dimers
Structure of 3-ethyl-6-phenyl-4-carbomethoxy-1.H-2-pyridone, an anti-tubercular metabolite 19
2, 4-Dinitrophenol (DNAP)
Synthesis, characterization and chelating properties of poly[azo-(6-hydroxy-1, 3-phenylene)] 479
4, 5-Diphenylimidazole-2-thione
Synthesis and characterization of Cu(I) and Ag(I) complexes of 4, 5-diphenylimidazole-2-thione 13
Dipole angle of –CHO group
Dipole moments of some substituted benzaldehydes. Conformational preference of substituents ortho to the aldehyde group 311
Dipole moments of benzaldehydes
Dipole moments of some substituted benzaldehydes. Conformational preference of substituents ortho to the aldehyde group 311
Disorder
Clathrate compound of a new host material, 3-hydroxy-6-(4′-nitro)phenylazopyridine 327
Dye–nucleic acid base complexes
Study of localized levels in proflavine complexes with nucleic acid bases 343

Eigenvectors
Two new graph-theoretical methods for generation of eigenvectors of chemical graphs 499
Electrical conductance
Synthesis and characterization of Cu(I) and Ag(I) complexes of 4, 5-diphenylimidazole-2-thione 13
Electrostatic potential
Electrostatic potential mapping of nucleic acid constituents. I. Guanine, cytosine and the G-C base pair 55
Errors in measurement
Determination of low concentration by spectrophotometry: Uranium–thiocyanate system 227
Ethoxymethoxy derivatives
Synthesis of natural triisopentenylated flavanone, euchrenone $a_2$ 467
Ethyl bromoacetate
Structure-reactivity correlation in the reaction of ethyl bromoacetate with aliphatic carboxylate ions 171
Ethylene glycol
Transition metal polymeric chelates: Spectral, magnetic, thermal behaviour of polymeric chelates of poly(resacetophenone diyl ethylene)s with Ni(II), Cu(II), Mn(II), Zn(II) and Co(II) 371
Euchrenone $a_2$
Synthesis of natural triisopentenylated flavanone, euchrenone $a_2$ 467
Eutectic solidification
Morphological and solidification studies of the naphthalene–thymol eutectic 539
Eutectic morphology
Morphological and solidification studies of the naphthalene–thymol eutectic 539
Excess volume
Excess volumes of isomeric butanols with di-*n*-butyl ether 443
Exchange inversion
Reactivity of the Re–NO centre: Proton induced oxidation of $Re(NO)^{2+}$ to $Re(NO)^{3+}$. Synthesis and characterisation of some Re(II) thiocyanato-halogenonitrosyl complexes 273
Excited state
Electronic spectra of 8-azaguanine in solution: Evidence for double-well potential surfaces and effect of dissolved oxygen 65
Excited-state electric dipole moment
Excited-state dipole moments from absorption and fluorescence solvatochromic shifts – a better approach 269
Extraction
Studies on the effect of extraction of isophorone diisocyanate-based segmented polyurethanes 455
Extrinsic and nonextrinsic semiconduction
Study of localized levels in proflavine complexes with nucleic acid bases 343

Facile electron transfer
Electron transfer to oxochromate(V) mediated through a sulphur bond 285
Formation constants
Physicochemical studies on ternary complexes containing adenosine 5-triphosphate, divalent metal ions and selected biomolecules 1
Tetrad effect in mixed-ligand lanthanide chelates. Part II: Lanthanide. CDTA/DTPA. orcinol/resorcinol/phloroglucinol ternary systems 93

G-C base pair
Electrostatic potential mapping of nucleic acid constituents. I. Guanine, cytosine and the G–C base pair 55
Glassy carbon substitute
On the behaviour of the dry cell graphite electrode 251
Goethite
Spectroscopic method for the determination of crystallinity of hematite 529
Graph theory
Two new graph-theoretical methods for generation of eigenvectors of chemical graphs 499
Graphite electrode
On the behaviour of the dry cell graphite electrode 251
Growth rate anisotropy
Morphological and solidification studies of the naphthalene–thymol eutectic 539

Halo-1, 4-quinones
Quinone studies. Part III. Metal ion-catalysed oxidation of halophenols and halonaphthols by peroxidisulphate 25
Halonaphthols
Quinone studies. Part III. Metal ion-catalysed oxidation of halophenols and halonaphthols by peroxidisulphate 25
Halophenols
Quinone studies. Part III. Metal ion-catalysed oxidation of halophenols and halonaphthols by peroxidisulphate 25
Heat of atomisation
Relationship between valency and heat of atomisation of molecules 37
Hematite
Spectroscopic method for the determination of crystallinity of hematite 529
Heterogeneous nucleation
Morphological and solidification studies of the naphthalene–thymol eutectic 539
Hexa-coordinated Ln complexes
Synthetic and structural studies of some trivalent lanthanide metal complexes of *o*-hydroxyacetophenone (N-benzyl)glycyl hydrazone 219

Homogeneous catalysis
Homogeneous catalysis by ruthenium carbonyl clusters 195
Hydroboration–oxidation
New synthesis of (*E*)-3, 7-dimethyl-2, 7-octadienylpropionate and (*E*)-3, 7-dimethyl-2-octen-1, 8-diol, pheromone components of San Jose scale-insect *Quadraspidiotus pernicious* and african monarch butterfly *Danaus chrysippus* 307
Hydrogen bonding
Ultrasonic velocity and absorption on methylmetha acrylic resins 429
Ultrasonic studies on binary mixtures of associated liquids (1-bromobutane + alcohol) at 303·15 K 439
Hydrous oxide membranes
Functional properties and electroanalytical selectivity of some anion exchange membranes 133
*o*-hydroxyacetophenone(N-benzoyl)glycylhydrazone
Synthetic and structural studies of some trivalent lanthanide metal complexes of *o*-hydroxyacetophenone (N-benzyl)glycyl hydrazone 219

INDO–MCSCF method
On the usefulness of generalized quantum chemical valence parameters in monitoring the course of a chemical reaction: A case study of the photochemical decomposition of HNO in excited states 421
INDO–MCSCF solvation model
Macroscopic solvation of molecules in excited states: An MCSCF model including solvent polarization effects-I 235
IR and vis spectra
Synthesis, characterisation and thermal analysis of copper (II) and chromium (II, III) hydrazine carboxylates 377
Infrared spectrum
IR and polarized Raman spectra of strontium tartrate trihydrate 243
Interferometer
Ultrasonic studies on binary mixtures of associated liquids (1-bromobutane + alcohol) at 303·15 K 439
Intramolecular hydrogen bond
Conformation of α-chloroacetanilides: An IR spectroscopic study 75
Iodate-driven oscillator
Chemical chaos in novel iodate-driven oscillator–thiophenol–iodate–$H_2SO_4$ system 177
Iodine band
First experimental evidence for the existence of blue-shifted iodine band: The $^3\pi_1 - {}^1\Sigma^+$ transition. An anecdote 89
Ion exchange membranes
Functional properties and electroanalytical

selectivity of some anion exchange membranes 133
Isentropic compressibilities
Ultrasonic studies on binary mixtures of associated liquids (1-bromobutane + alcohol) at 303.15 K 439
Isochromans
Isocoumarins: Part VIII- Synthesis of methoxy- and benzo-3-methylisocoumarins 301
Isocoumarine
Isocoumarins: Part VIII- Synthesis of methoxy- and benzo-3-methylisocoumarins 301
Isomeric effect
Excess volumes of isomeric butanols with di-*n*-butyl ether 443
Isophorone diisocyanate
Studies on the effect of extraction of Isophorone diisocyanate-based segmented polyurethanes 455

Ketal formation
Regiospecific photochemical transformations of 4,5-diaryl-$\Delta^4$-4-imidazolin-2-ones: ketal formation and cyclodehydrogenation 391

Lanthanide metal complexes
Synthetic and structural studies of some trivalent lanthanide metal complexes of *o*-hydroxyacetophenone (N-benzyl)glycyl hydrazone 219
Lespedezaflavanone-B
Synthesis of lespedezaflavanone-B and amorilin 383
Linear combination of bases
A graph theoretical method for stepwise factorisation of symmetric graphs for simultaneous determination of eigenvectors and eigenvalues 143
Ln, CDTA/DTPA/phenol/ternary complexes
Tetrad effect in mixed-ligand lanthanide chelates. Part II: Lanthanide. CDTA/DTPA. orcinol/resorcinol/phloroglucinol ternary systems 93
Localized levels
Study of localized levels in proflavine complexes with nucleic acid bases 343
Low concentration measurement
Determination of low concentration by spectrophotometry: Uranium-thiocyanate system 227

MCSCF model
Macroscopic solvation of molecules in excited states: An MCSCF model including solvent polarization effects-I 235
MCSCF–reaction field solvation model
Macroscopic solvation of molecules in excited states: An MCSCF model including solvent polarization effects-I 235
Macroscopic solvation
Macroscopic solvation of molecules in excited states: An MCSCF model including solvent polarization effects-I 235
Magnesium chloride
Thermodynamics of electrolytic solutions: Activity and osmotic coefficients of aqueous NaCl in the NaCl–$MgCl_2$–$H_2O$ system at different temperatures by the EMF method 433
Magnetic data
Synthesis and characterization of Cu(I) and Ag(I) complexes of 4,5-diphenylimidazole-2-thione 13
Mechanism of electrode process
Electrochemical investigations on $\beta$-chlorovinylaldehydes in aprotic media 473
Mercury (II) halide and pseudohalide complexes
Some neutral three-coordinate complexes of mercury (II) halides and pseudohalides with N-methylnicotinamide 449
Metal complexes of thymidine
Metal complexes of thymidine – a study of binary and ternary systems with bivalent and trivalent metal ions in solution 99
Metal ion-catalysed oxidation
Quinone studies. Part III. Metal ion-catalysed oxidation of halophenols and halonaphthols by peroxidisulphate 25
N-methylnicotinamide complexes
Some neutral three-coordinate complexes of mercury(II) halides and pseudohalides with N-methylnicotinamide 449
Microscopic expression
Microscopic expression for time-dependent solvation energy of ions and dipoles in dense polar liquids 83
Microspheroidal $\gamma$-alumina
Basic aluminium succinate: An alumina precursor formed by precipitation from homogeneous solution 111
Mixed chelates
Study of mixed chelates of thulium by solvent extraction 9
Multi-parameter equation
Structure-reactivity correlation in the reaction of ethyl bromoacetate with aliphatic carboxylate ions 171
Multilayer sorption
Interaction of 1-anilinonaphthalene-8-sulphonate with cross-linked poly(N-vinyl-2-pyrrolidone) 259
Multiplicity of degenerate eigenvalues
Two new graph-theoretical methods for generation of eigenvectors of chemical graphs 499
Mutation
Electronic spectra of 8-azaguanine in solution: Evidence for double-well potential surfaces and effect of dissolved oxygen 65

Mutual induction
Dipole moments of some substituted benzaldehydes. Conformational preference of substituents ortho to the aldehyde group 311

Neighbouring group effect
Aspects of tautomerism. Part 16. Influence of the γ-keto function on the reactions of sulphonic acids 319
Neighbouring group participation
Aspects of tautomerism. Part 16. Influence of the γ-keto function on the reactions of sulphonic acids 319
Nephelauxetic parameters
Photoacoustic spectra of rare earth 1-tyrosine hydrazide 8-hydroxyquinoline and ammonium metavanadate 351
Normal alcohols
Ultrasonic studies on binary mixtures of associated liquids (1-bromobutane + alcohol) at 303·15 K 439
Nucleic acids
Electrostatic potential mapping of nucleic acid constituents. I. Guanine, cytosine and the G-C base pair 55

Octahedral geometry
Synthesis, thermal, spectral and magnetic studies of complexes of Co(II), Ni(II), Cu(II), Ru(II), Pd(II) and Pt(II) with 2,3-disubstituted quinazolin-(3H)-4-ones 121
Oligonucleotide synthesis
Chemical synthesis of oligonucleotides. 3: Synthesis and characterization of N, O-protected ribophosphoesters for applications in RNA synthesis 401
One-electron reduction
One-electron reduction of toluidine blue. A pulse radiolysis study 43
Orotic acid (vitamin $B_{13}$)
Polarographic behaviour of orotic acid (vitamin $B_{13}$). Cathodic processes 415
Orthogonal gradient method
On the usefulness of generalised quantum chemical valence parameters in monitoring the course of a chemical reaction: A case study of the photochemical decomposition of HNO in excited states 421
*bis*-Oxalato-diaquo-chromate(III) ion
Kinetics and mechanism of anation of *cis*-diaquo-*bis*-oxalatochromate (III) ion by DL-alanine in ethanol–water mixtures of varying dielectric constant 187
Oxidant for lactic and thiolactic acids
Electron transfer to oxochromate(V) mediated through a sulphur bond 285
Oxidation kinetics
Kinetics and mechanism of oxidation of thiocarbohydrazide in the free state and in its metal complex and thiocarbohydrazone by chloramine-T and dichloramine-T 155
Oxidation mechanism
Kinetics and mechanism of oxidation of thiocarbohydrazide in the free state and in its metal complex and thiocarbohydrazone by chloramine-T and dichloramine-T 155
Oxochromate(V)
Electron transfer to oxochromate(V) mediated through a sulphur bond 285

PFHS
Basic aluminium succinate: An alumina precursor formed by precipitation from homogeneous solution 111
Peroxidisulphate
Quinone studies. Part III. Metal ion-catalysed oxidation of halophenols and halonaphthols by peroxidisulphate 25
Phenothiazine
One-electron reduction of toluidine blue. A pulse radiolysis study 43
Pheromones
New synthesis of (*E*)-3, 7-dimethyl-2, 7-octadienylpropionate and (*E*)-3, 7-dimethyl-2-octen-1, 8-diol, pheromone components of San Jose scale-insect *Quadraspidiotus pernicious* and african monarch butterfly *Danaus chrysippus* 307
Phosphotriester
Chemical synthesis of oligonucleotides. 3: Synthesis and characterization of N, O-protected ribophosphoesters for applications in RNA synthesis 401
Photoacoustic branching ratios
Photoacoustic spectra of rare earth 1-tyrosine hydrazide 8-hydroxyquinoline and ammonium metavanadate 351
Photoacoustic spectra
Photoacoustic spectra of rare earth 1-tyrosine hydrazide 8-hydroxyquinoline and ammonium metavanadate 351
Photobiology
Electronic spectra of 8-azaguanine in solution: Evidence for double-well potential surfaces and effect of dissolved oxygen 65
Photochemical decomposition
On the usefulness of generalized quantum chemical valence parameters in monitoring the course of a chemical reaction: A case study of the photochemical decomposition of HNO in excited states 421
Photochemical oxidative cyclization
Regiospecific photochemical transformations of 4, 5-diaryl-$\Delta^4$-4-imidazolin-2-ones: ketal formation and cyclodehydrogenation 391

Photochemistry
Electronic spectra of 8-azaguanine in solution: Evidence for double-well potential surfaces and effect of dissolved oxygen 65
Photocorrosion
Photocorrosion studies on CdS, $CdS_{0.62}Se_{0.38}$ and $Pt/CdS_{0.62}Se_{0.38}$ in aqueous halide solutions 487
Photoelectrochemical cell
Photocorrosion studies on CdS, $CdS_{0.62}$ $Se_{0.38}$ and $Pt/CdS_{0.62}Se_{0.38}$ in aqueous halide solutions 487
Platinization
Photocorrosion studies on CdS, $CdS_{0.62}$ $Se_{0.38}$ and $Pt/CdS_{0.62}$ $Se_{0.38}$ in aqueous halide solutions 487
Polar liquids
Microscopic expression for time-dependent solvation energy of ions and dipoles in dense polar liquids 83
Polarized Raman spectrum
IR and polarized Raman spectra of strontium tartrate trihydrate 243
Polarographic analysis
Polarographic analysis of the reduction waves of Pt(II)–SATSC complex 115
Polarography
Polarographic behaviour of orotic acid (vitamin $B_{13}$). Cathodic processes 415
Poly [azo(6-hydroxy-1, 3-phenylene)] (PAHP)
Synthesis, characterization and chelating properties of poly[azo-(6-hydroxy-1, 3-phenylene)] 479
Polychelates of PAHP
Synthesis, characterization and chelating properties of poly[azo-(6-hydroxy-1, 3-phenylene)] 479
Polymeric hypohalites
Topographical nature of the polymer matrix and reactivity of attached functional groups: Effect of crosslink density on the efficiency of solid-phase hypochlorite oxidations 335
Polymeric reagents
Topographical nature of the polymer matrix and reactivity of attached functional groups: Effect of crosslink density on the efficiency of solid-phase hypochlorite oxidations 335
Polyphosphoric acid
Transition metal polymeric chelates: Spectral, magnetic, thermal behaviour of polymeric chelates of poly(resacetophenone diyl ethylene)s with Ni(II), Cu(II), Mn(II), Zn(II) and Co(II) 371
Polyurethane
Studies on the effect of extraction of isophorone diisocyanate-based segmented polyurethanes 455
Potentiometry
Thermodynamics of electrolytic solutions: Activity and osmotic coefficients of aqueous NaCl in the $NaCl–MgCl_2–H_2O$ system at different temperatures by the EMF method 433
Prenylated benzopyranone
Synthesis of lespedezaflavanone-B and amorilin 383
Prenylated chalcone
Synthesis of lespedezaflavanone-B and amorilin 383
Proton induced oxidation
Reactivity of the Re–NO centre: Proton induced oxidation of $Re(NO)^{2+}$ to $Re(NO)^{3+}$. Synthesis and characterisation of some Re(II) thiocyanato–halogenonitrosyl complexes 273
Pt(II)–salicyaldehyde thiosemicarbazone system
Polarographic analysis of the reduction waves of Pt(II)–SATSC complex 115
Pulse radiolysis
One-electron reduction of toluidine blue. A pulse radiolysis study 43
Purine
Linear-sweep voltammetry and the simultaneous determination of xanthine and xanthosine at the glassy carbon electrode 181
Pyramidines
Physicochemical studies on ternary complexes containing adenosine-5′triphosphate, divalent metal ions and selected biomolecules 1

Quantum-chemical valence parameters
On the usefulness of generalized quantum chemical valence parameters in monitoring the course of a chemical reaction: A case study of the photochemical decomposition of HNO in excited states 421
Quinazolines
Synthesis, thermal, spectral and magnetic studies of complexes of Co(II), Ni(II), Cu(II), Ru(II), Pd(II) and Pt(II) with 2, 3-disubstituted quinazolin-(3H)-4-ones 121

Rare-earth complexes
Photoacoustic spectra of rare earth 1-tyrosine hydrazide 8-hydroxyquinoline and ammonium metavanadate 351
Resacetophenone
Transition metal polymeric chelates: Spectral, magnetic, thermal behaviour of polymeric chelates of poly(resacetophenone diyl ethylene)s with Ni(II), Cu(II), Mn(II), Zn(II) and Co(II) 371
Resacetophenone ethylene glycol resin
Transition metal polymeric chelates: Spectral, magnetic, thermal behaviour of polymeric chelates of poly(resacetophenone diyl ethylene)s with Ni(II), Cu(II), Mn(II), Zn(II) and Co(II) 371
Reduction of substituted acetophenones with $NaBH_4$
Kinetic evidence for steric enhancement of resonance: Oxidation of phenylmethylcarbinols with Cr(VI) and reduction of substituted acetophenones with sodium borohydride 33

Reductive nitrosylation
Reactivity of the Re–NO centre: Proton induced oxidation of $Re(NO)^{2+}$ to $Re(NO)^{3+}$. Synthesis and characterization of Re(II) thiocyanato–halogenonitrosyl complexes 273
Reflection plane
A graph theoretical method for stepwise factorisation of symmetric graphs for simultaneous determination of eigenvectors and eigenvalues 143
Regiospecific photochemical transformations
Regiospecific photochemical transformations of 4, 5-diaryl-$\Delta^4$-imidazolin-2-ones: ketal formation and cyclodehydrogenation 391
Ring-chain tautomerism
Aspects of tautomerism. Part 16. Influence of the γ-keto function on the reactions of sulphonic acids 319
Rotational isomerism
Conformation of α-chloroacetanilides: An IR spectroscopic study 75
Ruthenium carbonyl
Homogeneous catalysis by ruthenium carbonyl clusters 195

Secular determinant
A graph theoretical method for stepwise factorisation of symmetric graphs for simultaneous determination of eigenvectors and eigenvalues 143
Sodium chloride
Thermodynamics of electrolytic solutions: Activity and osmotic coefficients of aqueous NaCl in the $NaCl–MgCl_2–H_2O$ system at different temperatures by the EMF method 433
Solid phase organic reactions
Topographical nature of the polymer matrix and reactivity of attached functional groups: Effect of crosslink density on the efficiency of solid-phase hypochlorite oxidations 335
Solid state reaction
Clathrate compound of a new host material, 3-hydroxy-6-(4′-nitro)phenylazopyridine 327
Solvatochromic shifts
Excited-state dipole moments from absorption and fluorescence solvatochromic shifts – a better approach 269
Solvent extraction
Study of mixed chelates of thulium by solvent extraction 9
Solvent polarization model
Macroscopic solvation of molecules in excited states: An MCSCF model including solvent polarization effects-I 235
Sound velocity
Ultrasonic studies on binary mixtures of associated liquids (1-bromobutane + alcohol) at 303·15 K 439
Spectral data
Synthesis and characterization of Cu(I) and Ag(I) complexes of 4, 5-diphenylimidazole-2-thione 13
Spectrophotometry
Determination of low concentration by spectrophotometry: Uranium–thiocyanate system 227
Stabilities of conformations
Conformation of α-chloroacetanilides: An IR spectroscopic study 75
Stability constants
Complexation behaviour of benzilmono(lepidyl) hydrazone (BLH) toward bivalent metal ions: A potentiometric study 361
Staircase voltammetry
On the behaviour of the dry cell graphite electrode 251
Steric enhancement of resonance
Kinetic evidence for steric enhancement of resonance: Oxidation of phenylmethylcarbinols with Cr(VI) and reduction of substituted acetophenones with sodium borohydride 33
Steric inhibition of resonance
Kinetic evidence for steric enhancement of resonance: Oxidation of phenylmethylcarbinols with Cr(VI) and reduction of substituted acetophenones with sodium borohydride 33
Strong-metal-support-interaction
Strong-metal-support-interaction in titania-supported rhodium, ruthenium, and rhodium-ruthenium bimetallic catalysts 291
Structure
Crystal and molecular structure of 6-*t*-butyl-3-cyclohexyl-3, 4-dihydro-2-(2-chlorophenoxy)-2H-1, 3, 2-benzoxazaphosphorine-2-oxide 519
Substituent effect
Structure-reactivity correlation in the reaction of ethyl bromoacetate with aliphatic carboxylate ions 171
Substituted aliphatic carboxylate ions
Structure-reactivity correlation in the reaction of ethyl bromoacetate with aliphatic carboxylate ions 171
Symmetric graphs
A graph theoretical method for stepwise factorisation of symmetric graphs for simultaneous determination of eigenvectors and eigenvalues 143

Temperature-independent paramagnetism
Reactivity of the Re–NO centre: Proton induced oxidation of $Re(NO)^{2+}$ to $Re(NO)^{3+}$. Synthesis and characterisation of some Re(II) thiocyanato-halogenonitrosyl complexes 273
Ternary complexes
Physicochemical studies on ternary complexes containing adenosine-5′-triphosphate, divalent metal ions and selected biomolecules 1
Tetrad effect
Tetrad effect in mixed-ligand lanthanide chelates.

Part II: Lanthanide. CDTA/DTPA. orcinol/resorcinol/phloroglucinol ternary systems 93
Thermal analysis
Synthesis, characterisation and thermal analysis of copper (II) and chromium (II, III) hydrazine carboxylates 377
Thermal transformation
Spectroscopic method for the determination of crystallinity of hematite 529
Thermodynamic parameters
Complexation behaviour of benzilmono(lepidyl) hydrazone (BLH) toward bivalent metal ions: A potentiometric study 361
Thermodynamics of electrolytes
Thermodynamics of electrolytic solutions: Activity and osmotic coefficients of aqueous NaCl in the $NaCl-MgCl_2-H_2O$ system at different temperatures by the EMF method 433
Thiocarbohydrazide
Kinetics and mechanism of oxidation of thiocarbohydrazide in the free state and in its metal complex and thiocarbohydrazone by chloramine-T and dichloramine-T 155
Thiocyanato-halogenonitrosyls of rhenium
Reactivity of the Re–NO centre: Proton induced oxidation of $Re(NO)^{2+}$ to $Re(NO)^{3+}$. Synthesis and characterisation of some Re(II) thiocyanato-halogenonitrosyl complexes 273
Thiophenol–$KIO_3$–$H_2SO_4$ system
Chemical chaos in novel iodate-driven oscillator-thiophenol-iodate-$H_2SO_4$ system 177
Thorium cyanoacetate
Synthesis and characterization of thorium and uranium cyanoacetates and their coordination compounds 211
Three-coordinate mercury(II) complexes
Some neutral three-coordinate complexes of mercury(II) halides and pseudohalides with N-methylnicotinamide 449
Thulium
Study of mixed chelates of thulium by solvent extraction 9
Time-dependent solvation
Microscopic expression for time-dependent solvation energy of ions and dipoles in dense polar liquids 83
Titania-supported catalysts
Strong-metal-support-interaction in titania-supported rhodium, ruthenium, and rhodium-ruthenium bimetallic catalysts 291
Toluidine blue
One-electron reduction of toluidine blue. A pulse radiolysis study 43
Tri-isopentenylated chalcone
Synthesis of natural triisopentenylated flavanone, euchrenone $a_2$ 467
Tri-isopentenylated flavanone
Synthesis of natural triisopentenylated flavanone, euchrenone $a_2$ 467
Twinning
Clathrate compound of a new host material, 3-hydroxy-5-(4′-nitro)phenylazopyridine 327

Ulam's subgroups
Two new graph-theoretical methods for generation of eigenvectors of chemical graphs 499
Ultrasonic velocity
Ultrasonic velocity and absorption on methyl-metha acrylic resins 429
Uninegative bidentate ligands
Synthesis, thermal, spectral and magnetic studies of complexes of Co(II), Ni(II), Cu(II), Ru(II), Pd(II) and Pt(II) with 2, 3-disubstituted quinazolin-(3H)-4-ones 121
Uranium cyanoacetate
Synthesis and characterization of thorium and uranium cyanoacetates and their coordination compounds 211
Uranium-thiocyanate system
Determination of low concentration by spectrophotometry: Uranium-thiocyanate system 227

Voltammetric techniques
Electrochemical investigations on β-chlorovinyl-aldehydes in aprotic media 473
Voltammetry
Linear-sweep voltammetry and the simultaneous determination of xanthine and xanthosine at the glassy carbon electrode 181
Polarographic behaviour of orotic acid (vitamin $B_{13}$). Cathodic processes 415

X-ray photoelectron spectroscopy
Strong-metal-support-interaction in titania-supported rhodium, ruthenium, and rhodium-ruthenium bimetallic catalysts 291
Xanthine
Linear-sweep voltammetry and the simultaneous determination of xanthine and xanthosine at the glassy carbon electrode 181
Xanthosine
Linear-sweep voltammetry and the simultaneous determination of xanthine and xanthosine at the glassy carbon electrode 181

# AUTHOR INDEX


Adharani T K
*see* Reddy P Rabindra 99

Agnes Paul
*see* R Palaniappan R 115

Ahuja I S
Some neutral three-coordinate complexes of mercury(II) halides and pseudohalides with N-methylnicotinamide 449

Akolkar V D 301
*see* Bhide B H

Ananthaswamy J
*see* Rao N Kondala 433

Aravindakshan K K
*see* Mohanan A 13

Aruldhas G
*see* Rajagopal P 243

Ayachit Narasimha H
Excited-state dipole moments from absorption and fluorescence solvatochromic shifts – a better approach 269

Bagchi Biman
*see* Chandra Amalendu 83

Balasubramanian K K
*see* Saiganesh R 473

Baliah V
Kinetic evidence for steric enhancement of resonance: Oxidation of phenylmethylcarbinols with Cr(VI) and reduction of substituted acetophenones with sodium borohydride 33

Dipole moments of some substituted benzaldehydes. Conformational preference of substituents ortho to the aldehyde group 311

Bassi P S
Morphological and solidification studies of the naphthalene–thymol eutectic 539

Bhaduri S
Homogeneous catalysis by ruthenium carbonyl clusters 195

Bhat S N
First experimental evidence for the existence of blue-shifted iodine band: The $^3\pi_1 - {}^1\Sigma^+$ transition. An acecdote 89

Bhatt M V
*see* Perumal P Thirumalai 25
*see* Shashidhar M S 319

Bhattacharyya Bharati
Macroscopic solvation of molecules in excited states: An MCSCF model including solvent polarization effects – I 235

Bhattacharyya Ramgopal
Reactivity of the Re–NO centre: Proton induced oxidation of $Re(NO)^{2+}$ to $Re(NO)^{3+}$. Synthesis and characterisation of some Re(II) thiocyanato-halogenonitrosyl complexes 273

Bhattacharyya S P
*see* Bharati Bhattacharyya 235
*see* Maity D K 421

Bhide B H
Isocoumarins: Part VIII – Synthesis of methoxy- and benzo-3-methylisocoumarins 301

Blazquez L Calvo
Polarographic behaviour of orotic acid (vitamin $B_{13}$). Cathodic processes 411

Brahmbhatt D I
*see* Bhide B H 301

Chakrabarty D K
Strong-metal-support-interaction in titania-supported rhodium, ruthenium, and rhodium-ruthenium bimetallic catalysts 291

Chandra Amalendu
Microscopic expression for time-dependent solvation energy of ions and dipoles in dense polar liquids 83

Chellathurai T
*see* Baliah V 311

Chopra Renu
Synthesis of lespedezaflavanone-B and amorilin 383

Choudhury M R
*see* Garg B S 361

Das K K
*see* Maity D K 421

Dasmahapatra Anup K
*see* Bhattacharyya Ramgopal K 273

Datta Kali Kinkar
A graph theoretical method for stepwise factorisation of symmetric graphs for simultaneous determination of eigenvectors and eigenvalues 143
*see* Mukherjee Asok K 499

De B R
*see* Bharati Bhattacharyya 235

De K
*see* Mitra S (Mazumdar) 187

Deshpande S G
Synthesis and characterization of thorium and uranium cyanoacetates and their coordination compounds 211

Desiraju Gautam R
*see* Ramachandra P 327
Dixit R
*see* Garg B S 361

El Saker N
*see* Sawaby A 529

Flores J Rodriguez
*see* Blazquez L Calvo 415

Gabe E J
*see* Nethaji M 19
Ganesh K N
*see* Gopalakrishnan Vidhya 401
Ganesh T Bupathi
*see* Shanmugasundaram A 171
Garg B S
Complexation behaviour of benzilmono(lepidyl)-hydrazone (BLH) toward bivalent metal ions: A potentiometric study 361
Gopalakrishnan Vidhya
Chemical synthesis of oligonucleotides. 3: Synthesis and characterization of N,O-protected ribophosphoesters for applications in RNA synthesis 401
Gopinathan M S
*see* Siddarth Prabha 37
Gowda B Thimme
Kinetics and mechanism of oxidation of thiocarbonydrazide in the free state and in its metal complex and thiocarbohydrazone by chloramine-T and dichloramine-T 155
Goyal R N
Linear-sweep voltammetry and the simultaneous determination of xanthine and xanthosine at the glassy carbon electrode 181
Guha S N
*see* Mahadevan J 43

Iyer R K
*see* Madhusudan A 227

Jain Amolak C
Synthesis of natural triisopentenylated flavanone, euchrenone $a_2$ 467
Jain C K
*see* Srivastava S K 133
Jain S C
*see* Deshpande S G 211
Jara F Vinagre
*see* Blazquez L Calvo 415
Jayabalan M
*see* Kumar N Shanmuga 455

Kad G L
New synthesis of (*E*)-3,7-dimethyl-2,7-octadienylpropionate and (*E*)-3,7-dimethyl-2-octen-1,8-diol, phermone components of San Jose scale-insect *Quadraspidiotus pernicious* and african monarch butterfly *Danaus chrysippus* 307
Keerthi C N
*see* Reddy P Rabindra 99
Khwaja H I
*see* Bhaduri S 195
Kishore K
*see* Mahadevan J 43
Krishna T Siva Rama
*see* Ramachandra P 327
Krishnamurthy K R
*see* Maruthiprasad B S 111
Krishnamurti M
*see* Chopra Renu 383
Krishnan B
*see* Rakkappan C 429
Kumar Anil
Electrostatic potential mapping of nucleic acid constituents. I. Guanine, cytosine and the G-C base pair 53
Kumar N Shanmuga
Studies on the effect of extraction of isophorone diisocyanate-based segmented polyurethanes 455
Kuriacose J C
*see* Rufus I Bernard 487

Lingaiah P
*see* Prabhakar B 121

Madhusudan A
Determination of low concentration by spectrophotometry: Uranium–thiocyanate system 227
Mahadevan J
One-electron reduction of toluidine blue. A pulse radiolysis study 43
Maity D K
On the usefulness of generalised quantum chemical valence parameters in monitoring the course of a chemical reaction: A case study of the photochemical decomposition of HNO in excited states 421
Manoharan S Sundar
Synthesis, characterisation and thermal analysis of copper(II) and chromium(II, III) hydrazine carboxylates 377
Maruthamuthu Meenakshi
Interaction of 1-anilinonaphthalene-8-sulphonate with cross-linked poly(N-vinyl-2-pyrrolidone) 259
Maruthiprasad B S
Basic aluminium succinate: An alumina precursor formed by precipitation from homogeneous solution 111

Medhi Chitrani
*see* Bhattacharyya Bharati 235
Mishra P C
Electronic spectra of 8-azaguanine in solution: Evidence for double-well potential surfaces and effect of dissolved oxygen 65
Mishra P C
*see* Kumar Anil 55
Misiego A Sanchez
*see* Blazquez L Calco 415
Misra T N
*see* Sarkar D 343
Mitra S (Mazumdar)
Kinetics and mechanism of anation of *cis*-diaquo-*bis*-oxalatochromate (III) ion by DL-alanine in ethanol–water mixtures of varying dielectric constant 187
Mohan M Srinivas
*see* Rao A Koteswar 1
Mohanan A
Synthesis and characterization of Cu(I) and Ag(I) complexes of 4,5-diphenylimidazole-2-thione 13
Moharram M A
*see* Sawaby A 529
Moorthy P N
*see* Mahadevan J 43
Mukherjee Asok K
Two new graph-theoretical methods for generation of eigenvectors of chemical graphs 499
*see* Datta Kali Kinkar 143

Nagaraju C
*see* Selladurai S 519
Nethaji M
Structure of 3-ethyl-6-phenyl-4-carbomethoxy-1. H-2-pyridone an anti-tubercular metabolite 19
Nohria Sangita
*see* Kad G L 307

Palaniappan R
Polarographic analysis of the reduction waves of Pt(II)-SATSC complex 115
Pandey K S
*see* Mishra P C 65
Patel Hasmukh S
Synthesis, characterization and chelating properties of poly[azo-(6-hydroxy-1,3-phenylene)] 479
Patel M N
*see* Upadhyaya Hemang 371
Patel Pankaj
*see* Upadhyaya Hemang 371
Pathak Gopal
*see* Patil K R 443
Patil K C
*see* Manoharan S Sundar 377
Patil K R
Excess volumes of isomeric butanols with di-*n*-butyl ether 443
Pattabhi Vasantha
*see* Nethaji M 19
Perumal P Thirumalai
Quinone studies. Part III. Metal ion-catalysed oxidation of halophenols and halonaphthols by peroxidisulphate 25
Pillai V N Rajasekharan
*see* Sreekumar K 335
*see* Purushothaman E 391
Prabhakar B
Synthesis, thermal, spectral and magnetic studies of complexes of Co(II), Ni(II), Cu(II), Ru(II), Pd(II) and Pt(II) with 2,3-disubstituted quinazolin-(3H)-4-ones 121
Pradhan S D
*see* Patil K R 443
Prajapati Mahesh D
*see* Patel Hasmukh S 479
Prasad Ashok K
*see* Jain Amolak C 467
Purushothaman E
Regiospecific photochemical transformations of 4,5-diaryl-$\Delta^4$-imidazolin-2-ones: ketal formation and cyclodehydrogenation 391

Rai S
Photoacoustic spectra of rare earth l-tyrosine hydrazide 8-hydroxyquinoline and ammonium metavandate 351
Rai S B
*see* Rai S 351
Rajagopal P
IR and polarized Raman spectra of strontium tartrate trihydrate 243
Rajagopal S
*see* Maruthiprasad B S 111
Rajavelu A
Electron transfer to oxochromate(V) mediated through a sulphur bond 285
Rakkappan C
Ultrasonic velocity and absorption on methyl-metha acrylic resins 429
Ramachandra P
Clathrate compound of a new host materials, 3-hydroxy-6-(4′-nitro)phenylazopyridine 327
Ramachandran A
*see* Chakrabarty D K 291
Ramakrishnan V
*see* Rajagopal P 243
*see* Rufus I Bernard 487
Raman G K
*see* Rambabu K 439
Rambabu K
Ultrasonic studies on binary mixtures of

associated liquids (1-bromobutane + alcohol) at 303·15 K 439
Rao A Koteswar
Physicochemical studies on ternary complexes containing adenosine-5′-triphosphate, divalent metal ions and selected biomolecules 1
Rao A Srinivasa
*see* Rakkappan C 429
Rao N Kondala
Thermodynamics of electrolytic solutions: Activity and osmotic coefficients of aqueous NaCl in the $NaCl–MgCl_2–H_2O$ system at different temperatures by the EMF method 433
Rao T R
Synthetic and structural studies of some trivalent lanthanide metal complexes of *o*-hydroxyacetophenone (N-benzyl)glycyl hydrazone 219
Rao T S R Prasad
*see* Maruthiprasad B S 111
Reddy K Laxma
*see* Prabhakar B 121
Reddy P Padmavati
*see* Venkateshwarlu G 75
Reddy P Rabindra
Metal complexes of thymidine – a study of binary and ternary systems with bivalent and trivalent metal ions in solution 99
Roy Partha S
*see* Bhattacharyya Ramgopal 273
Rufus I Bernard
Photocorrosion studies on CdS, $CdS_{0.62}Se_{0.38}$ and $Pt/CdS_{0.62}Se_{0.38}$ in aqueous halide solutions 487

Sachdev G P
*see* Bassi P S 539
Sahgal Vandana
*see* Srivastava S K 133
Saiganesh R
Electrochemical investigations on *β*-chlorovinylaldehydes in aprotic media 473
Sandeepa
*see* Goyal R N 181
Sangurdekar P R
Study of mixed chelated of thulium by solvent extraction 9
Sarkar D
Study of localized levels in proflavine complexes with nucleic acid based 343
Sastri M N
*see* Maruthiprasad B S 111
Sawaby A
Spectroscopic method for the determination of crystallinity of hematite 529
Saxena M C
*see* Verma Sangeeta 93
Sekar G
*see* Rajagopal P 243
Selladurai S
Crystal and molecular structure of 6-*t*-butyl-3-cyclohexyl-3,4-dihydro-2-(2-chlorophenoxy)-2H-1,3,2-benzoxazaphosphorine-2-oxide 519
Seshan K
*see* Maruthiprasad B S 111
Shabaka A A
*see* Sawaby A 529
Shanmugasundaram A
Structure–reactivity correlation in the reaction of ethyl bromoacetate with aliphatic carboxylate ions 171
Sharma K R
*see* Bhaduri S 195
Shashidhar M S
Aspects of tautomerism. Part 16. Influence of the *γ*-keto function on the reactions of sulphonic acids 319
Shedbalkar V P
*see* Bhat S N 89
Sherigara B S
*see* Gowda B Thimme 155
Siddarth Prabha
Relationship between valency and heat of atomisation of molecules 37
Singh Genda
*see* Rao T R 219
Sreekumar K
Topographical nature of the polymer matrix and reactivity of attached functional groups: Effect of crossling density on the efficiency of solid-phase hypochlorite oxidations 335
Srinivasan Vangalur S
*see* Rajavelu A 285
Srivastava P K
Chemical chaos in novel iodate-driven oscillator–thiophenol–iodate–$H_2SO_4$ system 177
Srivastava S K
Functional properties and electroanalytical selectivity of some anion exchange membranes 133
Subrahmanyam B
*see* Venkateshwarlu G 75
Subramanian E
*see* Maruthamuthu Meenakshi 259
Subramanian K
*see* Selladurai S 519
Sundaram A K
*see* Sangurdekar P R 9
Sundari V
*see* Baliah V 33
Sudersanan M
*see* Sangurdekar P R 9

Thakur S N
*see* Rai S 351
Tripathi Shailendra
*see* Ahuja I S 449

Upadhyay P K
On the behaviour of the dry cell graphite electrode 251
Upadhyaya Hemang
Transition metal polymeric chelates: Spectral, magnetic, thermal behaviour of polymeric chelates of poly(reacetophenone diyl ethylene)s with Ni(II), Cu(II), Mn(II), Zn(II) and Co(II) 371

Vaidya M A
*see* Deshpande S G 211
Venkatachalam C S
*see* Saiganesh R 473
Venkateshwarlu G
Conformation of α-chloroacetanilides: An IR spectroscopic study 75
Venkateswarlu P
*see* Rambabu K 439
Verma Sangeeta
Tetrad effect in mixed-ligand lanthanide chelates. Part II: Lanthanide. CDTA/DTPA, orcinol/resorcinol/phloroglucinol ternary systems 93
Viswanathan B
*see* Rufus I Bernard 487

Yadava C L
*see* Ahuja I S 449